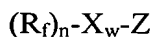


What Is Claimed Is:

1. Composition comprising an organic or aqueous liquid having dissolved or dispersed therein a mixture of fluorinated polyethers of the formula:



wherein n is 1 or 2, w is 0 or 1, X is a divalent or trivalent organic linking group, Z is a polar group selected from the group consisting of an acid group or salt thereof, an ammonium group, an amine-oxide group and an amphoteric group, and R_f represents a perfluorinated polyether group of the formula:



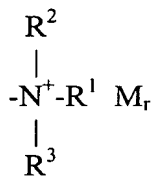
wherein k is at least 1;

said mixture of fluorinated polyethers having a weight average molecular weight between 750 g/mol and 5000 g/mol and the amount of perfluorinated polyether groups in said mixture where k is 2 or less, is not more than 10% by weight of the total amount of perfluorinated polyether groups in said mixture.

2. Composition according to claim 1, wherein the organic liquid is selected from the group consisting of polar solvents selected from the group consisting of alcohols, ketones, esters, ethers and amides, non-polar solvents selected from the group consisting of aromatic and aliphatic hydrocarbon solvents and halogenated solvents selected from the group consisting of hydrofluoroethers, hydrofluorocarbons and chlorinated hydrocarbons.

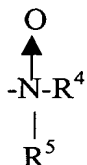
3. Composition according to claim 1, wherein the organic linking group corresponds to the formula $-\text{CONR}^a-(\text{CH}_2)_s-$, wherein R^a is hydrogen or C_{1-6} -alkyl or C_{1-6} -alkyl substituted by halogen, OH, or SH and s is 1 to 20.

4. Composition according to claim 1, wherein Z corresponds to the formula:



wherein each of R^1 , R^2 and R^3 independently represents a hydrogen atom or a hydrocarbon

group that may optionally be substituted, M represents a counter ion, r is 0 or 1, and when r is 0, one of R¹, R² and R³ represents a hydrocarbon group that is substituted with an acid group or wherein Z corresponds to the formula:

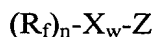


wherein R⁴ and R⁵ are independently C₁₋₆-alkyl, C₁₋₆-alkyl substituted by a halogen, a C₁₋₆-alkoxy, NO₂ or CN group, or R⁴ and R⁵ join to form a 5 to 7 membered ring that may contain one or more additional hetero atoms and that may be substituted by one or more C₁₋₆-alkyl groups.

5. Composition according to claim 1 further comprising one or monomers capable of polymerization.

6. Composition according to claim 1 further comprising a fluorochemical compound capable of providing oil- and/or water repellency properties to a substrate.

7. Mixture of fluorinated polyethers of the formula:



wherein n is 1 or 2, w is 0 or 1, X is a divalent or trivalent organic linking group, Z is a polar group selected from the group consisting of an ammonium group, an amine-oxide group and an amphoteric group, and R_f represents a perfluorinated polyether group of the formula:

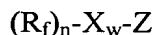


wherein k is at least 1;

said mixture of fluorinated polyethers having a weight average molecular weight between 750 g/mol and 5000 g/mol and the amount of perfluorinated polyether groups in said mixture where k is 2 or less, is not more than 10% by weight of the total amount of perfluorinated polyether groups in said mixture.

8. Method of altering the surface energy and/or interfacial free energy of a medium, said method comprising 1) providing a medium and 2) incorporating a fluorinated polyether

composition therein, said fluorinated polyether composition comprising a mixture of fluorinated polyethers of the formula:



wherein n is 1 or 2, w is 0 or 1, X is a divalent or trivalent organic linking group, Z is a polar group selected from the group consisting of an acid group or a salt thereof, an ammonium group, an amine-oxide group and an amphoteric group, and R_f represents a perfluorinated polyether group of the formula:

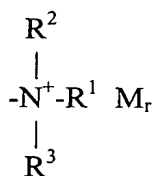


wherein k is at least 1;

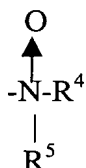
said mixture of fluorinated polyethers having a weight average molecular weight between 750 g/mol and 5000 g/mol and the amount of perfluorinated polyether groups in said mixture where k is 2 or less, is not more than 10% by weight of the total amount of perfluorinated polyether groups in said mixture.

9. Method of claim 8, wherein the organic linking group corresponds to the formula –CONR^a-(CH₂)_s-, wherein R^a is hydrogen or C₁₋₆-alkyl or C₁₋₆-alkyl substituted by halogen, OH, or SH, and s is 1 to 20.

10. Method of claim 8, wherein Z corresponds to the formula:



wherein each of R¹, R² and R³ independently represents a hydrogen atom or a hydrocarbon group that may optionally be substituted, M represents a counter ion, r is 0 or 1, and when r is 0, one of R¹, R², and R³ represents a hydrocarbon group that is substituted with an acid group or wherein Z corresponds to the formula:



wherein R⁴ and R⁵ are independently C₁₋₆-alkyl, C₁₋₆-alkyl substituted by a halogen, a C₁₋₆-alkoxy, NO₂ or CN group, or R⁴ and R⁵ join to form a 5 to 7 membered ring that may contain

one or more additional hetero atoms and that may be substituted by one or more C₁₋₆-alkyl groups.

11. Method of claim 8, wherein said medium is a coating composition or fire-fighting agent.